

DP-307106

INTERNALLY TETHERED SEAT BLADDER
FOR OCCUPANT WEIGHT ESTIMATION

Abstract of the Disclosure

An elastomeric seat bladder for a vehicle occupant weight estimation system includes a plurality of elastomeric tethers defined by bands or sheets of elastomeric material coupling upper and lower layers of the bladder within a
5 peripheral weld in order to reduce fluid pooling and distention or bulging of the bladder due to localized loading. The elastomeric tethers are spot or seam welded to upper and lower sheets of the bladder; they extend to limit distension where required, and otherwise partially or fully collapse to minimize vertical shunting of occupant weight through the bladder.